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On Error Bounds for Gauss-Legendre and Lobatto Quadrature Rules

Authors: [Szymon Wasowicz](#),

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Abstract: The error bounds for Gauss-Legendre and Lobatto quadratures are proved for four times differentiable functions (instead of six times differentiable functions as in the classical results). Auxiliarily we establish some inequalities for 3-convex functions.



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